Abstract

Devices and methods for processing data
transmission units (DTUs) that are either entering or
exiting a network. A device having multiple
processor modules is provided along with a controller
and an interface for the multiple processors. Each
processor can work on any one of the connection
levels and can independently process incoming or
outgoing DTUS. Each processor module can perform the
required calculations and data manipulation required
for BIP 8 calculation, binning, and trail trace
identifier validation. The controller receives the
incoming or outgoing DTUS and assigns these DTUS to
the appropriate processor module that is working on
that connection. Connections can be added or dropped
as required by the controller which also handles the
assignment of the processor modules to the
connections. Furthermore, also provided is an offset
scheme for the numbering of the connection levels
that avoids a zero connection level that may arise
due to an AIS event.